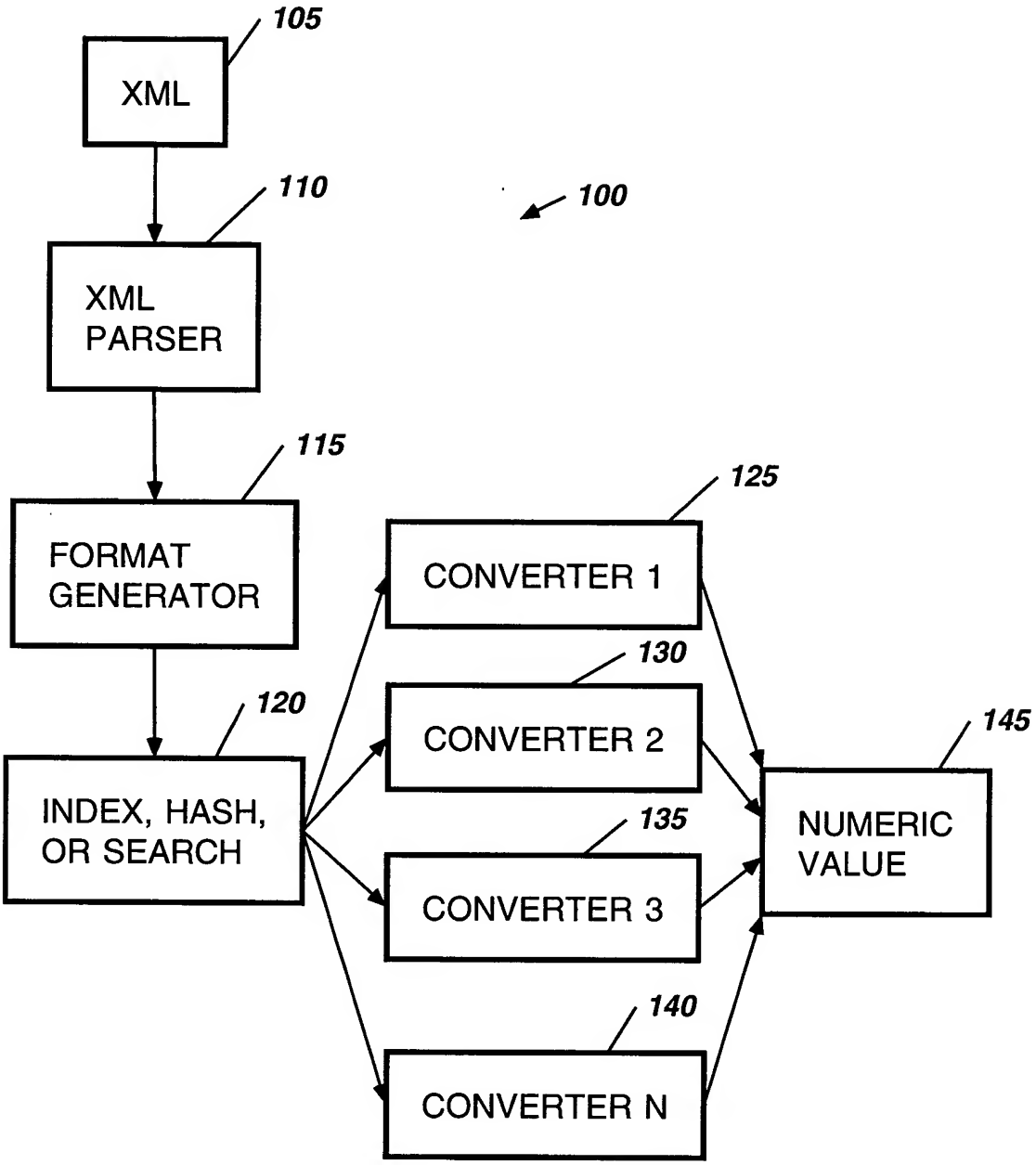
105
XML
110
100
XML PARSER
115
FORMAT GENERATOR
125
CONVERTER 1
130
120
CONVERTER 2
145
INDEX, HASH, OR SEARCH
135
NUMERIC VALUE
CONVERTER 3
140
CONVERTER N

Fig. 1

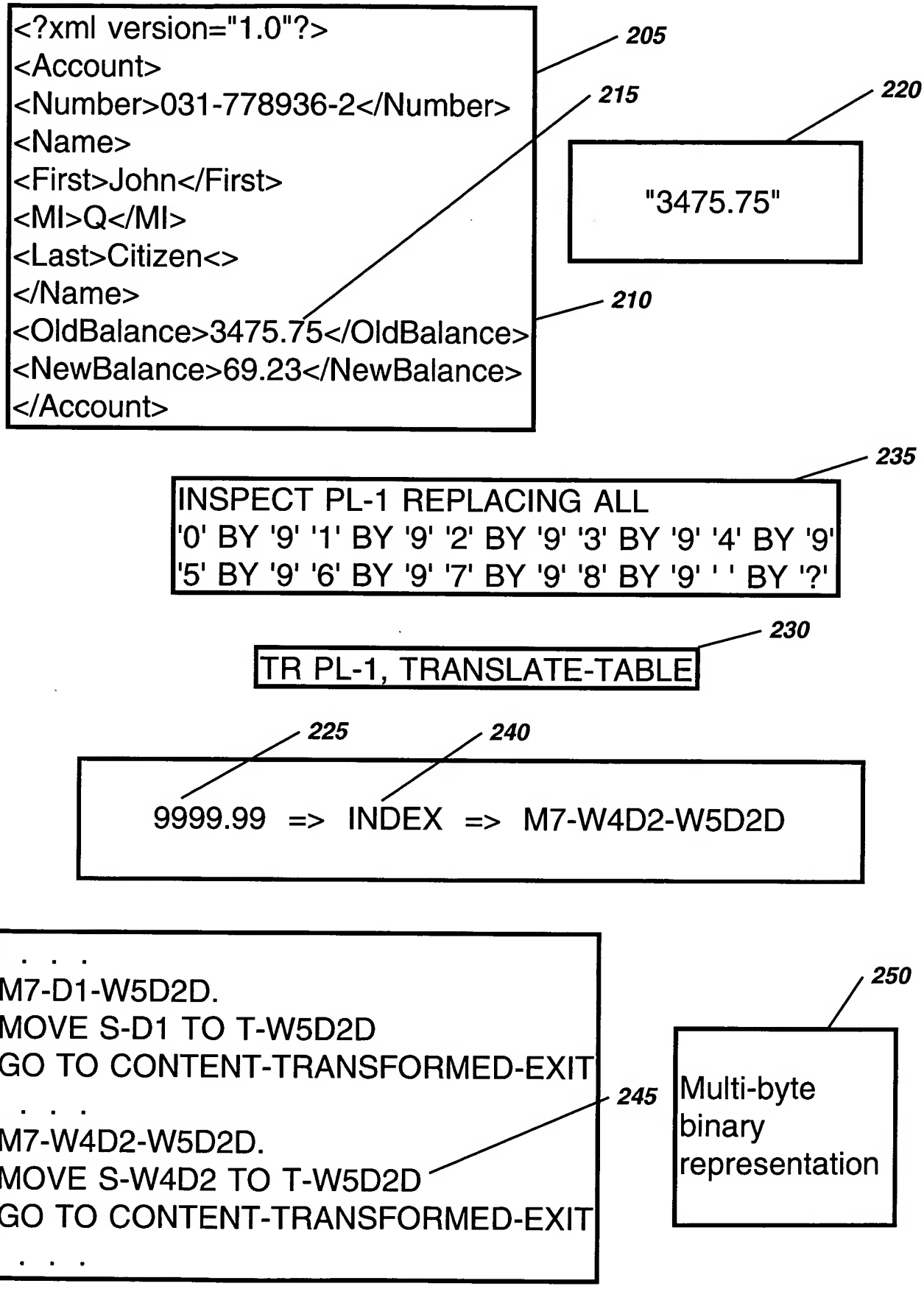
<?xml version="1.0"?>
<Account>
<Number>031-778936-2</Number>
<Name>
<First>John</First>
<MI>Q</MI>
<Last>Citizen<>
</Name>
<OldBalance>3475.75</OldBalance>
<NewBalance>69.23</NewBalance>
</Account>
205
215
220
"3475.75"
210
235
INSPECT PL-1 REPLACING ALL
'0' BY '9' '1' BY '9' '2' BY '9' '3' BY '9' '4' BY '9'
'5' BY '9' '6' BY '9' '7' BY '9' '8' BY '9' ' ' BY '?'
230
TR PL-1, TRANSLATE-TABLE
225
240
9999.99 => INDEX => M7-W4D2-W5D2D
. . .
M7-D1-W5D2D.
MOVE S-D1 TO T-W5D2D
GO TO CONTENT-TRANSFORMED-EXIT
. . .
M7-W4D2-W5D2D.
MOVE S-W4D2 TO T-W5D2D
GO TO CONTENT-TRANSFORMED-EXIT
. . .
245
250
Multi-byte
binary
representation

Fig. 2

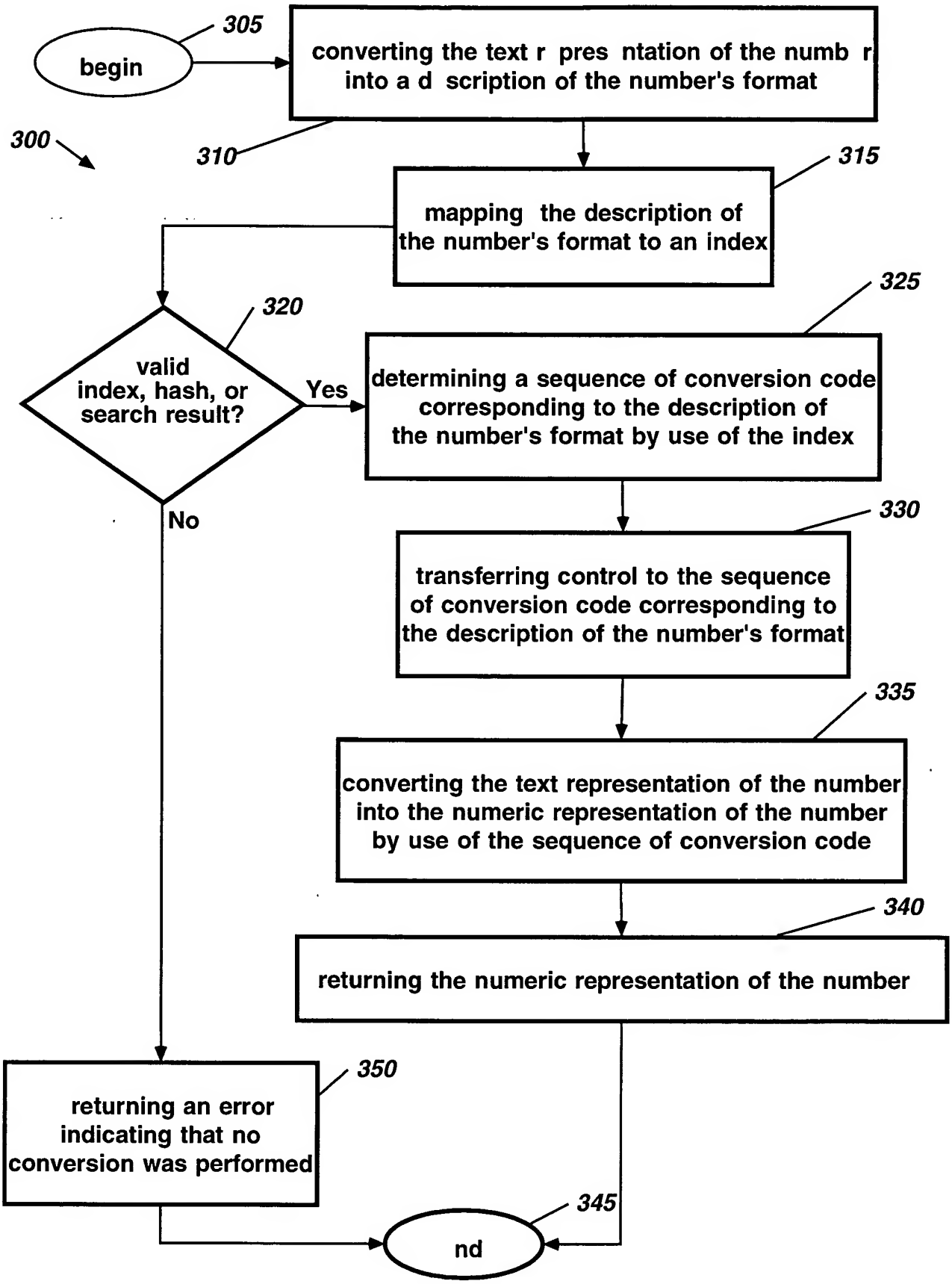
begin
305
converting the text r pres ntation of the numb r into a d scription of the number's format
300
310
315
mapping the description of the number's format to an index
320
valid index, hash, or search result?
Yes
No
325
determining a sequence of conversion code corresponding to the description of the number's format by use of the index
330
transferring control to the sequence of conversion code corresponding to the description of the number's format
335
converting the text representation of the number into the numeric representation of the number by use of the sequence of conversion code
340
returning the numeric representation of the number
350
returning an error indicating that no conversion was performed
345
nd

Fig. 3

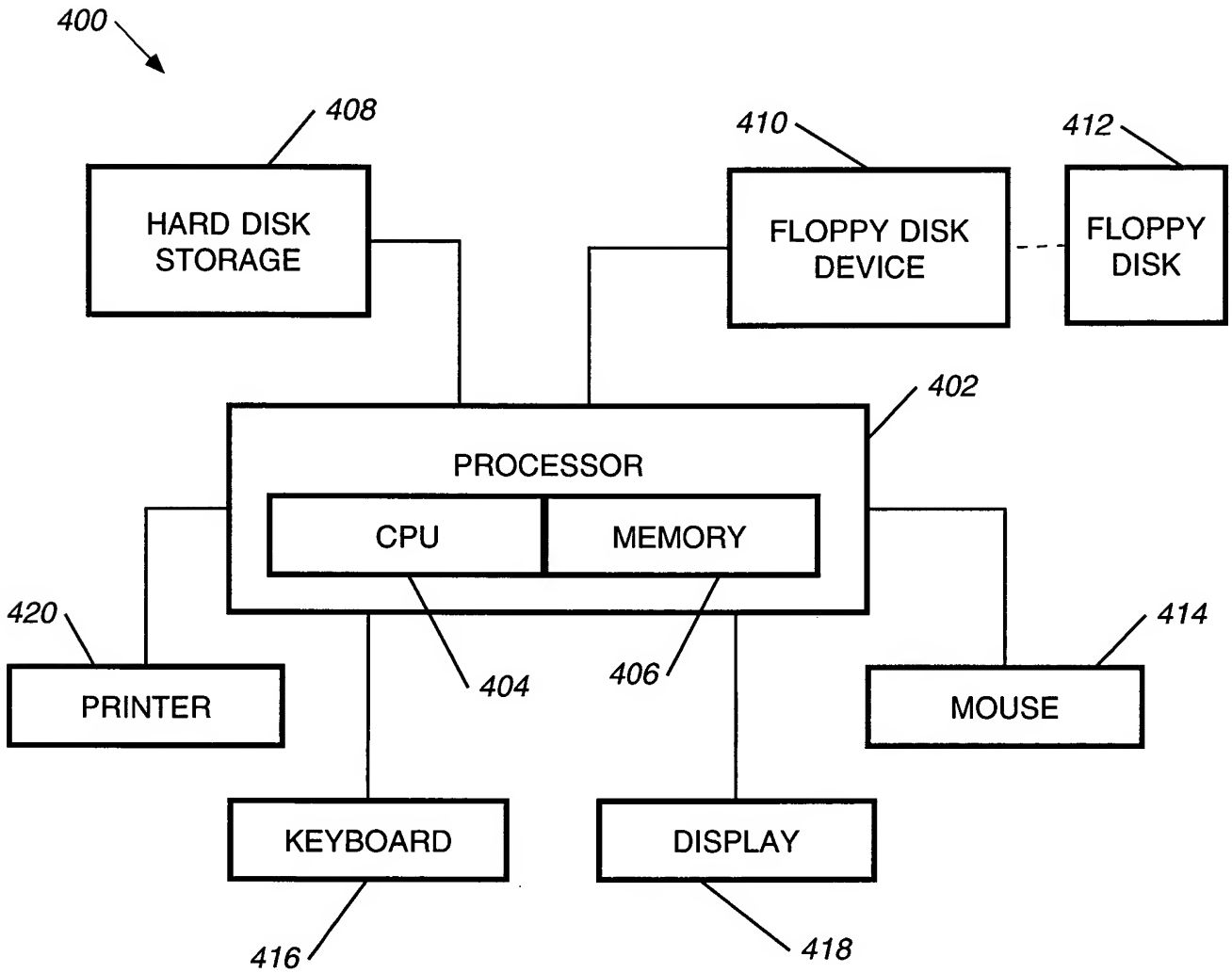
400
408
HARD DISK STORAGE
410
FLOPPY DISK DEVICE
412
FLOPPY DISK
402
PROCESSOR
CPU
MEMORY
420
PRINTER
404
406
414
MOUSE
KEYBOARD
DISPLAY
416
418

Fig. 4